

19990503.ba v02\_n529.bam.990503 v02\_n530.bam.990503 v02\_n531.bam.990503

>From ???@??? Tue May 04 01:53:29 1999  
Message-Id: <199905030935.EAA01163@sco.theporch.com>  
Date: Mon, 3 May 1999 04:35:01 CDT  
From: Old Tube Radios <boatanchors@theporch.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: BOATANCHORS digest 2529

## BOATANCHORS Digest 2529

Topics covered in this issue include:

- 1) SB-3xx Was:Re: EX107 RFA taming - Hue huzzah  
by John Kolb <jlkolb@cts.com>
- 2) RE: Is this an HQ-170?  
by John Kolb <jlkolb@cts.com>
- 3) RE: Is this an HQ-170?  
by Kim Herron <kherron@voyager.net>
- 4) RE: Is this an HQ-170?  
by Kim Herron <kherron@voyager.net>
- 5) AM filter 51S1 question  
by Tom Norris <badger@telalink.net>
- 6) Clough-Brengle OMA  
by polepeeg@aaa4rm.ba-watch.org (Marty's Refl. Drop)
- 7) WTD: MX-183/PPN-2 canvas bag  
by Paul Thekan <Paul.Thekan@eimac.cpii.com>
- 8) The Gonset Communicators  
by mnhopkins@juno.com
- 9) Re: Remember teletype?  
by thompson@mindspring.com
- 10) FS: pair NOS RCA 3B28  
by "Joseph W. Pinner" <kc5ijd@sprintmail.com>
- 11) Question, re RME-45  
by "James C. Garland" <4cx250b@miavx1.acs.muohio.edu>
- 12) REMEMBER TELETYPE?  
by JOHN\_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 13) HF AM ACTIVITY  
by JOHN\_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 14) Strange Military Thingie.  
by David Stinson <arc5@ix.netcom.com>
- 15) Livermore swap: If it rains, will they come?  
by jim lockwood <jmlckwd@mindspring.com>
- 16) Old ARRL Letter  
by jsm@intergate.bc.ca (Steve McDonald)
- 17) Remember Teletype?  
by Morris Odell <morriso@vifp.monash.edu.au>
- 18) Re: Audiophoolery Explained

- by Morris Odell <morriso@vifp.monash.edu.au>
- 19) Re: Tek 585A Problems  
by Henry van Cleef <vancleef@netcom.com>
  - 20) SX-28A Parts on EBay  
by CARRJJ@aol.com
  - 21) HP 524 Battleship Frequency Counter - deja vu all over again  
by "Arden Allen" <gumbear@pacbell.net>
  - 22) Tek 585A Article  
by "Steve" <scb@loki.internettport.net>
  - 23) Re: Remember teletype?  
by "Ragnar Otterstad" <otterstad@inet.uni2.dk>

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Date: Sat, 1 May 1999 21:28:03 -0700 (PDT)  
From: John Kolb <jlkolb@cts.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
cc: Old Tube Radios <boatanchors@theporch.com>  
Subject: SB-3xx Was:Re: EX107 RFA taming - Hue huzzah  
Message-ID: <Pine.SCO.4.05.9905012114380.6023-100000@sd.cts.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 1 May 1999, Hue Miller wrote:

> At 11:50 PM 4/30/99 -0400, Marty's Refl. Drop wrote:  
>  
> >Per Hue Miller's suggestion I reversed B+ and plate connections to  
>  
> --i had a Heath SB-310 whose RF was squirrely. ( i think that's the  
> term for breaking into oscillation. i don't know the genesis of this  
> technical term). i tried the above idea there, it helped some but not  
> enuff, but i remembered it.  
>  
> what really did it was just lubricating the preselector bearing.  
> as well as i could see, it was intermittently making poor contact  
> between the rotor and the frame, apparently with very little

Must be a common Heath problem - I had it on two different SB-310's  
so it probably happens on SB-301's also.

What cured it for me was running a piece of braid from the brass  
rotor wiper (that springlike item in the center of the cap, riveted  
to the frame) to the chassis. Must have been a poor connection  
from the wiper to the frame or frame to chassis.

The other useful SB-301 trick was to replace the AM filter sold for  
the SB-310, which was 5 kHz wide, with the AM filter from the SB-301,  
which was only 3.75 kHz wide.

John KK6IL

-----  
Date: Sat, 1 May 1999 21:57:43 -0700 (PDT)  
From: John Kolb <jlkolb@cts.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
cc: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: Is this an HQ-170?  
Message-ID: <Pine.SCO.4.05.9905012143300.6023-100000@sd.cts.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 1 May 1999, Roger A. McCarty wrote:

> On the HQ-170 listed below, the mode switch is a 2 position  
> switch AM and SSB/CW. I was under the impression that the  
> HQ-170's all used a 3 position switch, whereas the  
> difference between SSB and CW was the SSB position used a  
> fixed oscillator and the BFO control was in-operative. I am  
> being told by a few respondents that the 2 position switch  
> is more the norm. Apparently the receiver was built with  
> both configurations so I am wondering when the change was  
> incorporated into the design?

Sounds like the difference between the HQ-180 and HQ-180A.

"The following addenda information together with the basic manual of the HQ-180 takes care of the modification to the new Hammarlund HQ-180A series.

...

4. A new 3 position BFO switch is now provided enabling the BFO to be in the off position, SSB, where the BFO is fixed for optimum SSB audio response with reference to the pass band. The CW position enables the BFO to be adjusted + or - 2 KC ..."

The HQ-180 function sw was 2 position, AM and SSB/CW. Is this perhaps using the term HQ-170 loosely, when the HQ-170A is meant? A number of arguments have started from using R-390, when R-390A was intended :)

John KK6IL

-----  
Message-Id: <3.0.6.32.19990502084711.007a7da0@pop.voyager.net>  
Date: Sun, 02 May 1999 08:47:11 -0500  
To: Old Tube Radios <boatanchors@theporch.com>

From: Kim Herron <kherron@voyager.net>  
Subject: RE: Is this an HQ-170?  
Cc: Old Tube Radios <boatanchors@theporch.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi Gang,

This here post is for the less educated Hammarlund user.  
>> On the HQ-170 listed below, the mode switch is a 2 position  
>> switch AM and SSB/CW. I was under the impression that the  
>> HQ-170's all used a 3 position switch, whereas the  
>> difference between SSB and CW was the SSB position used a  
>> fixed oscillator and the BFO control was in-operative. I am  
>> being told by a few respondents that the 2 position switch  
>> is more the norm. Apparently the receiver was built with  
>> both configurations so I am wondering when the change was  
>> incorporated into the design?

When hammarlund upgraded their top of the line receivers (170 and 180) several things changed. First was the deletion of the 5U4 rectifier tube. The power supply went solid state. Next was the addition of several things that owners had wanted on their receivers. First of these was a 24 hour clock instead of a 12 hour clock. Second was the addition of a fixed position of the BFO for SSB reception instead of having to use the BFO tuning to receive sideband. Lastly, on the 180, was the incorporation of the vernier tuning found on the 170. This actually happened while the receiver was being produced as the HQ-180. As a cosmetic change, they went from a dark gray dial escutcheon to black and the cabinets and trim rings became all one color. Dark gray. The receivers also got the addition of the flip top cabinets. The cosmetics, power supply changes, and clock changes were also incorporated in the HQ-145, HQ-100, and 110. All these receivers became A models. The 145 also got the flip top cabinet.

The 180 actually can be found in four distinct variations, depending on when it was made, and when the owner had upgrades installed. The vernier tuning was available as an add on in the field and you moved the slot depth control inside the receiver and attached a small plate on the faceplate of the receiver and put the vernier tuning control in the now vacant depth control hole. They also had a version where this control was factory installed with the front panel silk screened for it. They didn't make too many of those. This happened just before they came out with the A line of receivers. Remember that Hammarlund was bought and sold several times between 1955 and when it went out of business in 1972. Telechron, Gianini, and EAC all put their individual marks on the receiver lines.

So, if it seems that there always seems to be one more variation out there, on a Hammarlund, your right, there probably is. One thing worth noting is the fact that they only produced S-100 and S-200 speakers with GOLD thread in the grille cloth one year. Their 50th anniversary year. Same is true for the HQ140 receiver. It was only produced one year with

BROWN knobs. Don't know the reason for that yet, but I'm looking.

Well it would seem I've rambled on long enough here. Just thought I'd pass the info along. Have fun with the radios and see you in spaces 1747, 48, 49 in Dayton.

Kim W8ZV

-----  
Message-Id: <3.0.6.32.19990502092711.007d5de0@pop.voyager.net>  
Date: Sun, 02 May 1999 09:27:11 -0500  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Kim Herron <kherron@voyager.net>  
Subject: RE: Is this an HQ-170?  
Cc: Old Tube Radios <boatanchors@theporch.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi again Gang,

One thing I forgot to mention that is VERY important to the A line of Hammarlund receivers was the addition of the filament transformer that was added so that the oscillator and RF amp tubes heaters were on all the time. This is why the A series of receivers really don't drift after being plugged in for a day or two. The receiver warms up and is kept warm by the heat of the tubes. It was a very important but not visible change in the 145, 170, and 180 receivers. It is something that I ALWAYS add to a receiver if I'm working on it for sale or for repair of someone elses receiver. It made a WORLD of difference on how stable the receivers were.

I've got more info if anyone is interested. But right now I've got to go. Have fun with the old radios!!

Kim

-----  
Message-Id: <3.0.5.32.19990502093746.0094a930@mail1.telalink.net>  
Date: Sun, 02 May 1999 09:37:46 -0500  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Tom Norris <badger@telalink.net>  
Subject: AM filter 51S1 question  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Have been searching for affordable AM filter to use with the 51S1 and have found few. Muphy's Surplus shows a filter board for the R-1051 with 3 500KC filters including a 7KC AM filter for \$45. Any comments on this? Will the 7 KC filter do give me any improvement over the stock LC filtering on AM ?

So far have not been able to find the exact filter called for in the Collins SB, though am still waiting to hear back from a guy that says he has one similar that will work for a decent price ( Much less than Surplus Sales, and they don't have the exact filter either, they say ).

Thanks for everyone's patience with all my queries while I get used to my new toy.

73

Tom KA4RKT

-----  
Date: Sun, 2 May 1999 13:51:30 -0400  
From: polepeeg@aaa4rm.ba-watch.org (Marty's Refl. Drop)  
Message-Id: <199905021751.NAA21089@aaa4rm.ba-watch.org>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Clough-Brengle OMA

If Brian could write about a Supreme meter as....

From: Brian.Harris@sv.sc.philips.com (Brian Harris)  
Subject: vintage test equipment anyone?

Well this's gotta be 1 2.

It's a sweep generator that seems to cover center freq.s fm 100kc to 30mc. Sweep widths unknown but it's done with a 'wobulator' via motor-drive.

It's got a 4 prong plug/cord & the usual 110AC line.

Anyone know a thing about it much less have a manual?

Tks,

Marty

-----  
Message-Id: <199905021710.KAA03275@scottie.eimac.cpii.com>  
Date: Sun, 02 May 1999 11:06:18 -0700  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Paul Thekan <Paul.Thekan@eimac.cpii.com>

Subject: WTD: MX-183/PPN-2 canvas bag  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hello all

Looking for the above mentioned bag. It looks to be maybe 14 inches tall and about 10 inches wide with a a cover flap and some shoulder straps i believe.

Thanks for the help

73

Paul N6FEG

-----  
To: Old Tube Radios <boatanchors@theporch.com>  
Date: Sun, 2 May 1999 13:12:23 -0500  
Subject: The Gonset Communicators  
Message-ID: <19990502.131226.-437425.0.MNHopkins@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
From: mnhopkins@juno.com

Sleeping now under the table with "make offer" signs, the Gonset Communicator AM Transceivers were once mainstays of 1950s VHF.

Offered first for 2M, where most were sold, they also had 6M variations. The first three, from the magic eyed Communicator I, to the Communicator II's introduction of a panel meter and to the Communicator III's blue knobs, they featured fairly nice TXs and single conversion receivers with an IF in the 2 to 6 mc range.

My study of Frank Jones' QSL cards for 1956-'58 confirms that many tapped the high IF out to a better receiver, but the Kennedy Era Communicator IV broke several traditions.

An early Communicator is the size and shape of a cathedral receiver, but the Communicator IV is horizontal and looks quite modern save its vertical receiver dial. Inside one finds a dual conversion RX with a first IF of 2.3mc on the 2M model. A free running, not crystal controlled mixer takes that down to 455 kc after a combination of a a crystal and a 15-19 mc VFO deliver it. A couple of stages of 455 feed a 6AV6 and my eyes fall on the separate 6AL5 squelch/anl: a discriminator transformer would put the upscale Communicator IV on the road to FM.

On the TX side three 12BY7s push a 6360 push-puller modulated by a pair of 6BQ5s. Solid state diodes sneak into the 6 or 12 volt power supply,

but judged overall the Communicator IV is clearly a high water mark in AM transceivers and worth pulling out from under the table.

de ab5L, Michael Hopkins, Box 226841, Dallas, TX 75222,  
MNHopkins@JUNO.com  
Student of Tecraft, ICM, and Six Meters' golden age, 1956-58.  
( AB5L has been Philosophically cleansed from QRP-L)

-----  
From: thompson@mindspring.com  
Message-ID: <002601be94cb\$1ede2720\$e8f245cf@default>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Remember teletype?  
Date: Sun, 2 May 1999 14:39:31 -0400

Yes, I remember...and the work required to get and keep them functioning.

We got a model 15 with several sets of extra parts and a box full of paper rolls. A local built a TU into a rack panel with a small scope. With the 6C4 doubler, tripler, 5763, 6146 driver we had it was easy to transmit...but getting the HQ110/HC-10 combo on the proper receive frequency was torture. We did work ZK1BS (rare DX in those days on RTTY) . Later on we got a Kleinschmidt and it was somewhat easier but when my dad and I quit AF and ARMY Mars we had to give the unit back (along with the TBW-5).

Now with the Terminals and high powered computers RTTY is easy.

Dave K4JRB

-----  
Message-Id: <199905022004.NAA03875@magpie.prod.itd.earthlink.net>  
Subject: FS: pair NOS RCA 3B28  
Date: Sun, 2 May 1999 15:04:27 -0500  
From: "Joseph W. Pinner" <kc5ijd@sprintmail.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

Have a NOS pair of RCA 3B28 rectifiers for sale. Nice replacement for 866As.

\$ 20 plus shipping.

73

Joseph W Pinner +  
Lafayette, LA



KC5IJD / NNNOPHR  
EMail: kc5ijd@sprintmail.com

-----  
Message-Id: <3.0.1.32.19990502170136.006ba93c@miavx1.muohio.edu>  
Date: Sun, 02 May 1999 17:01:36 -0400  
To: Old Tube Radios <boatanchors@theporch.com>  
From: "James C. Garland" <4cx250b@miavx1.acs.muohio.edu>  
Subject: Question, re RME-45  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi Gang,

I'm finally getting around to restoring an RME-45 I've had for awhile, and have a question about the audio output transformer. My H.W. Sams book on the RME-45 shows the radio as having a 4 ohm output transformer. I've recapped the audio stage and power supply, but the output sure looks to me like a high-Z output. A 4 ohm speaker loads the output xfmr as if it was a dead short, but a scope shows a big signal (from an audio oscillator -- haven't tried any of the rf circuits yet) with no speaker connected. Either I've got a bad output transformer, or my manual is wrong. I vaguely recall that my RME-69 has a high Z output, so maybe the RME-45 does also. Anybody got any experience with this old radio?

73,

Jim Garland W8ZR

-----  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit  
Date: Sun, 2 May 1999 17:14:25 -0400 (EDT)  
Subject: REMEMBER TELETYPE?  
To: Old Tube Radios <boatanchors@theporch.com>  
From: JOHN\_SEHRING.parti@ecunet.org (JOHN SEHRING)  
Message-ID: <9905021714.aa27837@pcusa01.ecunet.org>

To: boatanchors@theporch.com

At our church, we still have a \*rotary\* style phone in the basement.

The other day, a 10 year old kid needed to call home & couldn't quite figure out how to use it, all touch tone ya know. I showed him. His comment was, "cool." Age is a sneaky thing, hmmm....

-John Sehring (Sun, May 2, 1999 Custer SD USA) UCC WB0EQ

-----  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit  
Date: Sun, 2 May 1999 17:14:25 -0400 (EDT)  
Subject: HF AM ACTIVITY  
To: Old Tube Radios <boatanchors@theporch.com>  
From: JOHN\_SEHRING.parti@ecunet.org (JOHN SEHRING)  
Message-ID: <9905021714.aa27840@pcusa01.ecunet.org>

To: boatanchors@theporch.com

Out here in the wilds of the West (southeast MT & southwest SD), I don't hear nearly as much AM activity on 160, 75 & 40 m as I did in the East (20, 15 & 10 m is another, different story).

Yes, pop. is much more sparse out here, we have Connecticut-size counties with 2000 people & towns 50-100 miles apart. So, fewer hams.

Maybe it's time to summarize AM activity again. Nets, common AM freqs/time of day, etc.?

Thanx.

-John Sehring (Sun, May 2, 1999 Custer SD USA) UCC WB0EQ

-----  
Message-ID: <372CCC68.984F45FE@ix.netcom.com>  
Date: Sun, 02 May 1999 17:06:32 -0500  
From: David Stinson <arc5@ix.netcom.com>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Strange Military Thingie.  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Anyone know what this transmitter did?

<http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?ViewItem&item=97940297>

Thanks,  
Dave AB5S

-----  
Message-Id: <3.0.32.19990502160302.00730d1c@pop.mindspring.com>  
Date: Sun, 02 May 1999 16:12:46 -0700  
To: Old Tube Radios <boatanchors@theporch.com>

From: jim lockwood <jmlckwd@mindspring.com>  
Subject: Livermore swap: If it rains, will they come?  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Yes!

Despite the rain and the unusual cold for this time of year, the parking lot at the Livermore swap was densely populated with radios looking for new homes this morning. To my eye, there was a good selection of BA radios to be had.

I'm sure I missed some things, but this is what I remember:

Drake "B" twins. Dirty, no cases, looked complete. \$100 for the pair (unsold when I left)

Drake L-4 amplifier with PS. Looked nice. Needed cleaning. \$500 (unsold when I left) (wish I had taken that much money with me. it would be here now)

Drake 2B with calibrator. Typical copper cancer. Original tubes. \$100 (followed me home) (needed one crystal replaced..... typical of 2Bs)

Drake R4A. Looked good. Rumoured to work. (sold)

Gonset Communicator I. Dipped in white paint. Didn't ask price

hallicrafters SX-42. Nice looking. Included clutch control wing knob. Rumoured to work. \$180 (sold)

Heath HW-[1,2,3]2 monobander. Didn't notice which one. Looked OK.

Heath HW-101. Looked nice. Didn't see a PS with it.

Viking Valiant. Looked nice. Didn't get price

SBE-34, pair, one sorta works, one for parts. \$30 (followed me home)

hallicrafters S-20. Didn't check the price.

hallicrafters S-38d(?) Looked nice.

RME preselector or maybe a converter

McMurdo Silver antenna position control. \$10 (sold)

So, that's what I remember seeing. It was kinda hard to focus on the junk and stuff available, when it was so unexpectedly chilly. I'm sure there was more there that I just didn't notice. Anyone who got to Livermore after 8:30 or so, missed the peak; sellers were giving up by then and heading home.

73,

Jim - K4CCF

(formerly KM6NK, WA4K00, WN4K00)

Looking for original QSL cards from K4CCF

<http://www.mindspring.com/~johnmb/radiorm1.htm>

-----  
Date: Sun, 2 May 1999 16:24:36 -0700 (PDT)  
Message-Id: <199905022324.QAA03604@vector.intergate.ca>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: Old Tube Radios <boatanchors@theporch.com>  
From: jsm@intergate.bc.ca (Steve McDonald)  
Subject: Old ARRL Letter

I have recently come across a nicely typed letter, typed on the ARRL stationery of the day, dated January 23, 1935 and signed by Don Mix. It is a reply to a request for technical assistance regarding a recent QST transmitter article.

I don't really want to keep the letter but I don't want to throw it away either. Are there any ARRL memorabilia collectors out there?

I will send you the letter, no charge, if you let me know why you want it and what you will do with it!

73,

Steve / VE7SL

-----  
Message-ID: <372CDF93.2821A580@vifp.monash.edu.au>  
Date: Mon, 03 May 1999 09:28:19 +1000  
From: Morris Odell <morriso@vifp.monash.edu.au>

MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Remember Teletype?  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Sure do!

Here in Oz there was a high level of RTTY activity in the early '80s as the post office got rid of their teletype machines. It was a few years before the onset of computerized modes such as packet etc. Here in Melbourne we had an active 2M RTTY repeater, a 2M RTTY mailbox (a bit like this group although a LOT slower!!) and a weekly phenomenon called "RTTY Night Owl Theatre" where aficionados would send long Baudot pictures to the group over the repeater ( no measly 3 minute timeouts here :-) HF RTTY was a popular mode and I got as close as I ever got to DXCC on 20M that way.

I still have my Siemens Model 100 in full working order complete with homebrew TU including a tuning 'scope and electronic 45/50 baud speed control.

Alas there's not much activity these days outside of the occasional contest. The Australian Teleprinter Club (ANARTS) still has a weekly RTTY broadcast on HF and VHF but the ranks of the callbackers is declining.

The only commercial (if you can call it that) Baudot service that I can still copy regularly here is North Korean propaganda drive. It's good for a laugh and to watch the old gear clanking along and never fails to impress the occasional visitor. I like to fire it up with the R390A and its panadaptor as a signal source, an old rackmount HP 'scope monitoring the motor speed and the tuning 'scope in the TU showing the crossed ellipse pattern. Then I turn out the room lights and switch on the copy lamp on the teleprinter...pure heaven!!

73 de Morris VK3DOC

-----  
Message-ID: <372CE4C7.3D0C677A@vifp.monash.edu.au>  
Date: Mon, 03 May 1999 09:50:31 +1000  
From: Morris Odell <morriso@vifp.monash.edu.au>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Audiophoolery Explained  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi,

Arden Allen wrote:

>

> Maritime surfers;

>

> Surfing web pages occasionally turns up jems that make the adventure worth  
> the effort. This page, I would suggest, is defenitive in explaining why  
> the world of audio exists the way does today and may be instructive as to  
> what the future holds for radio:

<snip>

This is a classic piece of "Selfiana". Doug Self has been writing for Wireless World and its successor journal for many years on audio, both fact and fiction.

He is a talented engineer and has published many great (sold state) audio designs. He has also written several articles in similar vein to the one you quoted and has participated in many wonderfully acerbic exchanges in the letter column. He certainly doesn't suffer (audio)phools gladly.

Wireless World has always allowed cranks to publish all sorts of crazy stuff such as Einstein debunking, anti-gravity theories and audiophoolery and then allowed gloves-off debate. Fortunately there are articulate and knowledgeable people like Self to put them in their place.

Myself, I just reach for the psychiatric committal forms :-)

Morris

-----  
From: Henry van Cleef <vancleef@netcom.com>  
Message-Id: <199905030038.RAA27134@netcom3.netcom.com>  
Subject: Re: Tek 585A Problems  
To: Old Tube Radios <boatanchors@theporch.com>  
Date: Sun, 2 May 1999 18:38:56 -0600 (MDT)  
Cc: boatanchors@theporch.com  
MIME-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit

As Steve discourses

>

> Greetings;

>  
> For a discussion (and a fascinating peek inside Tek during development)  
> of this revolutionary instrument, courtesy of Hank van Cleef, visit;  
> <<http://margo.student.utwente.nl/~wel/vancleef.txt>>  
>

Eh? Qu'est-ce que c'est? I'm astounded to see that my musings are now being retailed off some web site---and none too thrilled.

There is a major and egregious error here. The 585 was designed in 1958. I didn't go to work for Tek until 1960, so I most certainly had no idea what went on inside Tek when the 585 was developed. I did, of course, know the people involved, and some of the story, but most certainly was not there when it was happening.

--

=====  
Hank van Cleef  
=====

-----  
From: CARRJJ@aol.com  
Message-ID: <b722579.245e49e8@aol.com>  
Date: Sun, 2 May 1999 20:38:00 EDT  
Subject: SX-28A Parts on EBay  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

A seller has a bunch of SX-28A still in wrappers for sale on E-bay

-----  
Message-Id: <199905030109.SAA05019@mail-gw.pacbell.net>  
From: "Arden Allen" <gumbear@pacbell.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: HP 524 Battleship Frequency Counter - deja vu all over again  
Date: Sun, 2 May 1999 18:10:48 -0700  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

HEAVY Anchorites;

Having recently acquired an MX-1637/U 10-100 Mc frequency converter for use with my 524C counter I find I am under-documented on the unit. I only have a schematic and partial instructions and I've already discovered some ambiguities. The MX-1637 comes in at least two variants, one for the FR-38/U and FR-38A/U and another for the FR-38B/U and FR-38C/U military

versions of the 524B (I'm guessing). The cillyvillian; version of the MX-1637 is the 525A (the 525A is the 10-100 Mc converter, the 525B is for 100-220 Mc and the 525C for 100-510 Mc). It would be reassuring if I could get a complete manual for a 525A so that my MX-1637 could finally be mustered out into a civilian retirement. I would be happy to cover all costs for a copy or purchase a manual if one is available. Thanks

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

-----  
Message-Id: <199905030540.AAA17251@loki.internettport.net>  
From: "Steve" <scb@loki.internettport.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Date: Mon, 3 May 1999 00:17:40 +0000  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Subject: Tek 585A Article  
CC: boatanchors@theporch.com

Myself:

>"> For a discussion (and a fascinating peek inside Tek during  
> development) of this revolutionary instrument, courtesy of Hank van  
> Cleef, visit;<---->"

Hank van Cleef:

>"Eh? Qu'est-ce que c'est? I'm astounded to see that my musings are  
>now being retailed off some web site---and none too thrilled."  
>"There is a major and egregious error here. The 585 was designed in  
>1958. I didn't go to work for Tek until 1960, so I most certainly had  
>no idea what went on inside Tek when the 585 was developed. I did, of  
>course, know the people involved, and some of the story, but most  
>certainly was not there when it was happening."

The website linking to the article By Mr. van Cleef is:

<<http://margo.student.utwente.nl/~wel/tek.htm>>

"The Museum Of Tek Scopes"

My sincere apologies to Mr. van Cleef if I implied an inaccurate interpretation of the circumstances, I meant only to credit the author. My own impression of this article was that he was informed as to the development process due to his association with Tektronix, rather than as a contemporary participant.

The article has enhanced my appreciation of this company, their engineering and production staff, as well as their o'scopes developed during the tube era. I found it most interesting and thought it pertinent to the purpose of the list, hence the posted notice. I



regret any misunderstanding or discomfort that notice may have caused.

Steve C. Bringhurst

-----  
Message-ID: <041201be9547\$cc3cb5e0\$1f00a8c0@ro>  
From: "Ragnar Otterstad" <otterstad@inet.uni2.dk>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Remember teletype?  
Date: Mon, 3 May 1999 10:37:21 +0200  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Teletype is or was a registered trade mark. The correct word would be  
Teleprinter !   hi   73   Rag   oz8ro

-----Original Message-----  
From: Norm Flasch <flasch@cushy.ece.nwu.edu>  
To: Old Tube Radios <boatanchors@theporch.com>  
Date: 30. april 1999 01:20  
Subject: Remember teletype?

>  
>I was working with a student here explaining the origins of RS-232  
>and why there are so many variations. I asked him if he knew what  
>a teletype machine is. The answer was no... Well, he has some  
>historical prespective now :-) Remember all the newscasts, even  
>well into the 70's (if my memory is correct) had teletype machines  
>running in the background? How things have changed. Of course,  
>how would a 20 year old know what a teletype machine is? We don't  
>teach technical history here. At least I'm around to fill in the  
>blanks now and then.

>  
>--  
>Norm Flasch       Electronic Specialist       ECE dept  
>Northwestern University       Evanston, Illinois  
>flasch@ece.nwu.edu               847-467-4387  
>  
>

-----  
End of BOATANCHORS Digest 2529

\*\*\*\*\*

>From ???@??? Tue May 04 01:54:13 1999  
Message-Id: <199905031917.0AA07113@sco.theporch.com>  
Date: Mon, 3 May 1999 14:17:24 CDT  
From: Old Tube Radios <boatanchors@theporch.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: BOATANCHORS digest 2530

BOATANCHORS Digest 2530

Topics covered in this issue include:

- 1) Re: Mk 123 spy sets cases available  
by "Ragnar Otterstad" <otterstad@inet.uni2.dk>
- 2) 51S-1  
by ALanger394@aol.com
- 3) the XMTR nobody wanted  
by Brian.Harris@sv.sc.philips.com (Brian Harris)
- 4) Re: Audiophoolery Explained  
by John Shriver <jas@shiva.com>
- 5) RE:6528 TUBE  
by Maurice Weinschenker <morry@ix.netcom.com>
- 6) Re: 6528 TUBE  
by John Shriver <jas@shiva.com>
- 7) Re: 6528 TUBE  
by John R Bookout K7JB <k7jb@uswest.net>
- 8) HF AM ACTIVITY  
by Nick England <nick@cs.unc.edu>
- 9) Boatanchors In Spaaaaaaace....  
by David Stinson <arc5@ix.netcom.com>
- 10) Re: Remember teletype?  
by Allan Stephens <modsteph@ACS.EKU.EDU>
- 11) NC303 paint scheme  
by Matt Jodziewicz <mattj@oraus.com>
- 12) Re: Audiophoolery Explained  
by "Arden Allen" <gumbear@pacbell.net>
- 13) Re: Remember teletype?  
by "Roberta J. Barmore" <rbarmore@indy.net>
- 14) Copyright advice needed!  
by "Roberta J. Barmore" <rbarmore@indy.net>
- 15) 572B SPECS  
by JOHN\_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 16) FS: BC-923  
by "Joseph W. Pinner" <kc5ijd@sprintmail.com>
- 17) Re: Copyright advice needed!  
by "Frank Townsend" <ftownsen@iamdigex.net>

18) Re: Audiophoolery Explained  
by Richard Loken <richardlo@devax.admin.athabascau.ca>

---

Message-ID: <041701be9547\$d590b600\$1f00a8c0@ro>  
From: "Ragnar Otterstad" <otterstad@inet.uni2.dk>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Mk 123 spy sets cases available  
Date: Mon, 3 May 1999 11:09:08 +0200  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
Content-Transfer-Encoding: 7bit

Was Mk 123 also used as a spy set not only by SAS ? By whom ?

73 Rag oz8ro

Subject: Mk 123 spy sets cases available

I have several green canvas cases that house the 123 spy set,  
these are about 11.5 by 8.5 by 3.5 inch (W, D, H) with two  
fastening straps and buckles.

These would suit other similar equipment.

very good condition. 18 Pound each plus postage.

Ben G4BXD

---

From: ALanger394@aol.com  
Message-ID: <94f10eef.245ed0ab@aol.com>  
Date: Mon, 3 May 1999 06:12:59 EDT  
Subject: 51S-1  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Hello Tom and the list

Tried to send this post to you diredctly but it was returned

As a follow up

I managed to get the correct cylindrical filter from a dealer here in the UK who was parting out equipment

If you contact me with your email address i will try and dig out the details

Thanks

Allan

G6EII

In a message dated 01/05/99 09:01:49 GMT Daylight Time, MAILER-DAEMON@aol.com writes:

<< Last-Attempt-Date: Sat, 1 May 1999 04:01:48 -0400 (EDT)

-----

Received: from ALanger394@aol.com (399)  
by imo11.mx.aol.com (IM0v20) id pICVa07092  
for <badger@telalink>; Sat, 1 May 1999 04:01:36 -0400 (EDT)  
Return-path: ALanger394@aol.com  
From: ALanger394@aol.com  
Message-ID: <5681c51.245c0ed9@aol.com>  
Date: Sat, 1 May 1999 04:01:29 EDT  
Subject: 51S-1  
To: badger@telalink  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit  
X-Mailer: AOL 4.0.i for Windows 95 sub 118

Date: Fri, 30 Apr 1999 23:48:47 -0500  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Tom Norris <badger@telalink.net>  
Subject: Yet Another 51S1 question  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Hello Tom

I have done this mod to my unit some time ago

>From memory

The cylindrical Collins filter is mounted underneath the receiver chassis in a "P" clip. The mounting hole used is one of the old mounting holes previously used for T14 or T15

In the original Kit Collins provided two small metal plates to cover the cut outs when the transformers are removed ,I did not have these plates

hope this helps

Regards

Allan

G6EII

The Collins manual mentions that a 6 Khz filter can be used for AM. To quote the manual "T14, T15 and C134 may be optionally replaced with a 6 kHz mechanical filter....." It shows a recommended schematic.

BUT - What is the recommended physical placement of this AM filter? I have a source of the filter ( Thanks Dave, will send you more mail on this ) but was wondering if anyone has done this and what the best placement of the filter might be. An AM filter would be really nice for SWL use.

I really do like this RX, very easy to use. I need to find out why I have backlash in the tuning next. May wait, as I am way too lazy right now to take the front panel off and see just what gear has play. It will get done eventually.

Thanks

Tom Norris KA4RKT

Still enjoying my 51S1 in its G133F "spook" clothing.....

>>

----- >>

-----  
Mime-Version: 1.0

Date: Sun, 2 May 1999 09:45:12 -0700

Message-ID: <0031DBAE.1914@svlima.sv.sc.philips.com>

From: Brian.Harris@sv.sc.philips.com (Brian Harris)

Subject: the XMTR nobody wanted  
To: Old Tube Radios <boatanchors@theporch.com>  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit  
Content-Description: cc:Mail note part

Well, I did it.

Since nobody wanted the late 40's, mostly homebrew transmitter described in my recent post as 'Dave's Work', I am dismantling it. The only thing that is not really homebrew is the VFO. I would like to find out what this is, where it came from and what its frequency range is. Lacking a digital camera, here is the best description I can muster:

It is built on a shallow chassis that's 11.5 x 6 x 1-1/4 inches. It has a black circular dial marked from 0 through 100 (actually 0, 5, 10.....thru 95 with lines between the 5 counts. Coupled to this dial is a two digit mechanical counter that I would guess, if it were working right, goes from 01 to 20 or 21. The main dial will turns 21 times from stop to stop. There are two boxes on top of the chassis that house the variable capacitors that are ganged together and driven by worm gear assemblies with beautiful construction. Also inside each box is a coil and an air variable trimmer. The coil in the front box has about twice as many turns as the coil in the rear box, which makes me think the rear capacitor/coil is for a doubler or tripler. The boxes are 6 x 4.5 x 6 inches. There is a 6SJ7 that appears to be the oscillator and a 6SK7 that appears to be the multiplier. There are four terminals for power connection on the left side and two terminals on the right side for RF output. Stamped in large numbers on the left side of the chassis is '385'.

So, who knows what this is?

73, Brian Harris WA5UEK

-----  
Date: Mon, 3 May 1999 10:04:10 -0400  
Message-Id: <199905031404.KAA02434@brill.shiva.com>  
From: John Shriver <jas@shiva.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
CC: boatanchors@theporch.com  
Subject: Re: Audiophoolery Explained

That was copied from Doug Self's web site, for the original (and more), see <http://www.dself.demon.co.uk/ampins.htm>.

In a nutshell, subjective audiophilia was partly a response to early solid-state amplifiers that were egregiously poorly designed, and audio magazines that did reviews that glossed over the issues so as not to offend advertizers. (Reviews were sent for approval, if not

acceptable, they were pulled.) There were legitimately audible differences in the early 1970's.

Nowadays, most of high-end audio is a process of separating rich people with insecurities from their money.

As Self has written, it is now possible to design a "blameless" solid-state amplifier. Subjective amplifier reviewing is now (unless you are deliberately seeking euphonic distortion) pointless.

The tube sound (as we all know) is pleasant and fun. So long as we don't justify our preference by pseudo-science, we're being honest with ourselves.

-----  
Message-ID: <372DAD8B.5C2EA6C1@ix.netcom.com>  
Date: Mon, 03 May 1999 10:07:07 -0400  
From: Maurice Weinschenker <morry@ix.netcom.com>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE:6528 TUBE  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

SURE CUD USE HELP.

I'M IN THE PROCESS OF DESIGN/BUILD A NEW 50 WATT RIG. IN THE GUD OLD ATTIC I FOUND A VY INTERESTING LOOKING TUBE. A 6528. ANYONE HVE ANY INFO ON THIS BOTTLE.?????????????  
BEST 73 MORRY K3DPJ

-----  
Date: Mon, 3 May 1999 10:30:57 -0400  
Message-Id: <199905031430.KAA02451@brill.shiva.com>  
From: John Shriver <jas@shiva.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
CC: boatanchors@theporch.com  
Subject: Re: 6528 TUBE

One of the Tung-Sol/Chatham brawny voltage regulator pass tubes. The first was the 6AS7/6080. They made versions with slightly different mu (but always low), and ever increasing plate dissipation.

All require VERY low impedance on the control grid, since the cathodes run extremely hot, and they are very subject to grid emission. They also have strict restrictions on cathode current, plate voltage, and dissipation, giving them a rather limited safe operating area.

Barely useful at AF (very hard to drive, hard to devise proper output

transformer for low plate impedance), and useless at RF (huge capacitance).

But, impressive brutes.

-----  
Message-ID: <372DB927.17C03E5E@ptld.uswest.net>  
Date: Mon, 03 May 1999 07:56:39 -0700  
From: John R Bookout K7JB <k7jb@uswest.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
CC: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: 6528 TUBE  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi gang:

Interesting thread here; as I remember back, when I first started work at Tektronix, everyone was building a push pull audio amplifier with 6080's. They used them to drive the low impedance load cathode follower style. As I recall, there were something like 6 total tubes used here. I don't even know where to find one, but, there has got to be some around in someone's basement! This was a neat and unique design because you didn't need any heavy audio output transformers!

73's John K7JB

-----  
John Shriver wrote:

>  
> One of the Tung-Sol/Chatham brawny voltage regulator pass tubes. The  
> first was the 6AS7/6080. They made versions with slightly different  
> mu (but always low), and ever increasing plate dissipation.  
>  
> All require VERY low impedance on the control grid, since the cathodes  
> run extremely hot, and they are very subject to grid emission. They  
> also have strict restrictions on cathode current, plate voltage, and  
> dissipation, giving them a rather limited safe operating area.  
>  
> Barely useful at AF (very hard to drive, hard to devise proper output  
> transformer for low plate impedance), and useless at RF (huge  
> capacitance).  
>  
> But, impressive brutes.

--

Best 73's John  
Amateur Radio K7JB -- Portland Oregon 97229



-----  
Date: Mon, 3 May 1999 11:04:40 -0400 (EDT)  
From: Nick England <nick@cs.unc.edu>  
Message-Id: <199905031504.LAA04816@altair.cs.unc.edu>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: HF AM ACTIVITY

I have a "Boatanchors Frequently Asked Questions" web site at  
<http://www.cs.unc.edu/~nick/rrab.faq.htm>

Which includes a list of AM Nets, etc. I'm always looking for additions and corrections to this and the other info (manual sources, boatanchor dealers, etc.) on my site.

73 & Have Fun,  
Nick England KD4CPL    nick@cs.unc.edu    Univ. Of North Carolina  
<http://www.cs.unc.edu/~nick/hobbies.html>    Chapel Hill NC

-----  
Message-ID: <372DBFFF.4ACAAC63@ix.netcom.com>  
Date: Mon, 03 May 1999 10:25:51 -0500  
From: David Stinson <arc5@ix.netcom.com>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Boatanchors In Spaaaaaaace....  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I've spent a small amount of time over the last couple of years researching the communications in early US space vehicles. I got my first semi-close look at a Project Mercury spacecraft this weekend (Faith 7). The only piece of the several comm. systems I could see was a small section of (I think) the backup UHF communications system, which ran .5 watt. It looked very much like period Aircraft Radio Corp. ARC-type-12 equipment, with what appeared to be a UHF connector and gray, wrinkle paint finish.

Transistors were still a fairly "new" technology in 1961. NASA was very concerned with using safe, reliable systems. I believe that, if I ever get access to detailed technical material, I will find that many of these systems were based on solder-in tubes.

Therein lies the rub;  
The folks at the Smithsonian have been most kind and helpful to send me a broad overview of the systems involved,

but I can't seem to get them to understand  
the concept of a "schematic" or "technical manual."  
I've talked to them since they sent me the "block diagram" type  
material and they are no closer to understanding what I need.  
I can't afford to fly up there and draw them a picture.

Can anyone suggest another approach to obtaining this data?

TNX ES 73 DE Dave Stinson AB5S  
arc5@ix.netcom.com

p.s. An interesting bit of data from the Mercury flights:  
The spacecraft was equipped with both UHF and HF voice systems.  
The UHF voice systems were useful for communications  
104% of the time the spacecraft was in line-of-sight  
of its tracking stations. The 5-watt HF system? 113%! HA!

-----  
Date: Mon, 03 May 1999 11:31:00 -0400  
From: Allan Stephens <modsteph@ACS.EKU.EDU>  
Subject: Re: Remember teletype?  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: Old Tube Radios <boatanchors@theporch.com>  
Message-id: <372DC134.55F95289@acs.eku.edu>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

Ragnar Otterstad wrote:

> Teletype is or was a registered trade mark. The correct word would be  
> Teleprinter ! hi 73 Rag oz8ro

...or teletypewriter, the preferred one used by my brother when  
he was working for Teletype Corp.

73, Al N5AIT

-----  
Message-ID: <30AB00986E91D211A08B00104B8942F00935D2@ORAMAIL>  
From: Matt Jodziewicz <mattj@oraus.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: NC303 paint scheme  
Date: Mon, 3 May 1999 08:40:26 -0700  
MIME-Version: 1.0

Content-Type: multipart/alternative;  
boundary="----\_=\_NextPart\_001\_01BE957B.440000F0"

This message is in MIME format. Since your mail reader does not understand this format, some or all of this message may not be legible.

-----\_=\_NextPart\_001\_01BE957B.440000F0  
Content-Type: text/plain;  
charset="iso-8859-1"

The work on restoring the NC303 is now down to the painting stage. Stripped the cabinet and found it had been repainted (badly) by a previous user so I am unsure of the proper painting scheme. Can anybody tell me what was the proper paint scheme on the cabinet? It appears to have been gray on top with black on the bottom, but what was the back panel? Was it gray or black? By the way, I am assuming that the bottom portion was black, is that correct? The NC300 was described as a two-tone gray cabinet so I am puzzled.

Sorry to ask such low tech dumb questions but this one is a keeper for my station and I would like to get it right.

Thanks.

Matt WB2VZS

-----\_=\_NextPart\_001\_01BE957B.440000F0  
Content-Type: text/html;  
charset="iso-8859-1"

<!DOCTYPE HTML PUBLIC "-//W3C//DTD W3 HTML//EN">  
<HTML>  
<HEAD>  
<META HTTP-EQUIV="Content-Type" CONTENT="text/html; charset=iso-8859-1">

<META content="'MSHTML 4.72.2106.6'" name=GENERATOR>  
</HEAD>  
<BODY bgColor=#ffffff>  
<DIV><SPAN class=572463815-03051999><FONT color=#000000 face=Arial size=2>The work on restoring the NC303 is now down to the painting stage.&nbsp; Stripped the cabinet and found it had been repainted (badly) by a previous user so I am unsure of the proper painting scheme.&nbsp; Can anybody tell me what was the proper paint scheme on the cabinet.&nbsp; It appears to have been gray on top with black on the bottom, but what was the back panel.&nbsp; Was it gray or black.&nbsp; By the way, I am assuming that the bottom portion was black, is that correct.&nbsp; The NC300 was described as a two-tone gray cabinet so I am



> As Self has written, it is now possible to design a "blameless"  
> solid-state amplifier. Subjective amplifier reviewing is now (unless  
> you are deliberately seeking euphonic distortion) pointless.

It's a widespread malady. Have you read Consumer Reports lately? The 20th Century will go down in history as the time that the truth was the victim of a partial berth abortion.

> The tube sound (as we all know) is pleasant and fun. So long as we  
> don't justify our preference by pseudo-science, we're being honest  
> with ourselves.

I don't know of a "tube sound", that's for adherents to Self's Subjectivist Manifesto. Where sonic perfection is desired, solid state is way ahead of the game. Where something else is desired, who knows, maybe someone will market a steam calliope as a return to lost virtues.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

-----  
Date: Mon, 3 May 1999 12:30:05 -0500 (EST)  
From: "Roberta J. Barmore" <rbarmore@indy.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
cc: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Remember teletype?  
Message-ID: <Pine.SUN.3.96.990503114352.15720D-1000000@indy1>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi!

Rag's right, of course, and who could forget the big ol' "T" logo of the Teletype Corporation? Certainly not anyone who learned computers in the dim, dark days of the art, when a "minicomputer" was a rackmount gadget the size and weight of an R-390 and chattering Teletypes were the preferred terminal device! (This is one case where those who sigh after "the good ol' days" probably never had to scrape the distinctively strong Teletype ribbon ink from under their fingernails! --'Druther have a Morse sounder than that!)

In the context of the original posting, an amusing sidelight: in the late '70s through early '80s, as the old-style mechanical teleprinters in broadcast newsrooms were replaced by dot-matrix printers made by Extel(\*), many radio stations that had been keeping the machines in or close by the newsroom and getting the "news sound" of the machine sputtering out dispatches from around the globe found themselves a bit

embarrassed: Extel printers produced not the clashing thunder of the old teleprinters, but a rather, well, obnoxiously flatulent muttering. It often took someone from \*outside\* the business to point this out, as we all \*knew\* what the thing looked like and associated the noise with nothing but AP, UPI, Reuters, etc.! For awhile, the "fix" was a tape-loop of the sound of the original machines but it was too silly a notion to persist for long.

(A prime sin in many big-city radio & TV newsrooms was to say \*anything\* near the TTY machines--especially the sort of expletives one might utter upon discovering the machine had eaten a ribbon or suffered a paper-jam! ...You see, in the big stations the machines were nowhere near the studio, and a live mic, most often with \*no\* warning light, would be left hanging unobtrusively nearby to pick up the sound. Next-worst crime was to have the machine turned off to change a ribbon during the newscast!)

...The best fun of the whole process was to be cold-reading (i.e., without checking it over first) a wire story--sports news was the worst--and find the keypunch op had neglected to shift from "figures" back to "letters." There was no good way out of it, it's a little difficult to fake the outcome of a sporting match....

Most stations banned cold-reading and a good-many banned "rip & read," requiring that all wire stories be paraphrased--but, speaking as the gal who read the late-night weekend news for a good many years on a good many stations, these policies were often ignored, especially if the wire service was running a little late with the important stuff (in rough order: tomorrow's weather, who won the ball games, and which public figures were in trouble; major world news ranks last with the listening public!).

Nowadays, the wire services spool right into the newsroom computer; "rip & read" has been replaced by "cut & paste" but from time to time, the effects are the same! At least the incoming is ASCII, not Baudot; but all that means is there is \*no\* way to translate the glitches.

73,

--Bobbi

(Grey hair? Me? What grey hair? Hmpf!)

---

\* If the name "Extel" seems suggestive, your instincts are good; story was, the founders had been kicked out of Teletype for their wild, crazy ideas about a whole new way to make teleprinters! First-generation Extel printers used pressure-sensitive paper, which drove newsies right up the wall--many liked to make notes on their copy as it sat stacked up on the desk and with that stuff, a note on the top sheet showed up on every page below. Subsequent models used a normal ribbon, just about the \*only\* thing they had in common with the big ol' clatter-and-thud teleprinters.

(Never occurred to me, but "copy" as used above refers to the stuff spat out by the machine and, like "30" at the end of a news story,

probably came to the business via the press telegraphers of yore, who handed what they'd copied from the wire to the editor: copyin' code, copyin' news, copyin' traffic, same expression. [Gang, "30" in American Morse is didididahdit daaaaah: source of the prosign \_VA\_ or \_SK\_!]).

KB9GKX "RJ" rbarmore@indy.net Roberta J. (Bobbi) Barmore  
FISTS #3388 \* G-QRP #10001 \* ARRL \* RSGB \* WIA  
Appreciator Of Vacuum-Tube Ham Gear and Vintage Keys

-----  
Date: Mon, 3 May 1999 12:51:12 -0500 (EST)  
From: "Roberta J. Barmore" <rbarmore@indy.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Copyright advice needed!  
Message-ID: <Pine.SUN.3.96.990503124424.15720H-1000000@indy1>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi, Gang!

I have here a booklet from 1934, which the good folks at Pacific Radio Publishing Company saw fit to copyright. Now the original copyright is long expired...but PRP Co. begat Editors & Engineers, which was consumed in two parts by Cowan and Howard W. Sams, any of whom might've renewed it. It's unlikely--the material was topical and this particular publication went through several editions, each seperately copyrighted.

But how can I find out? I've never tried to clear a copyright before; is there a governement web site or some place to look?

...I'd really like to print up a batch of reprints of this book; "5 Meter Radiotelephony" is a good one! And it would be ever so much nicer to do so with a clear conscience and no dark looks from the copy-shop folks.

73,  
--Bobbi

KB9GKX "RJ" rbarmore@indy.net Roberta J. (Bobbi) Barmore  
FISTS #3388 \* G-QRP #10001 \* ARRL \* RSGB \* WIA  
Appreciator Of Vacuum-Tube Ham Gear and Vintage Keys

-----  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit  
Date: Mon, 3 May 1999 13:57:46 -0400 (EDT)  
Subject: 572B SPECS  
To: Old Tube Radios <boatanchors@theporch.com>

From: JOHN\_SEHRING.parti@ecunet.org (JOHN SEHRING)  
Message-ID: <9905031357.aa06012@pcusa01.ecunet.org>

To: boatanchors@theporch.com

The Svetlana web page has lots of arts. on RF & AF amps using big tubes.

svetlana.com

Under Tech Support there, you'll find a long list of arts. The one I found that well covers RF use of the 572B is "A single triode 350 w power amp" by EA3ALV.

Also, are some other tips on the list on using Svetlana's 572B, it needs more neg bias to cut off than other manufacurers' versions of this tube.

-John Sehring (Mon, May 3, 1999 Custer SD USA) UCC WB0EQ

-----  
Message-Id: <199905031805.LAA06403@magpie.prod.itd.earthlink.net>  
Subject: FS: BC-923  
Date: Mon, 3 May 1999 13:05:33 -0500  
From: "Joseph W. Pinner" <kc5ijd@sprintmail.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

I have a very nice BC-923 receiver. It is almost like new. No dynamotor, though.

\$ 100 plus shipping.

73

Joseph W Pinner +  
201 Ruthwood Drive  
Lafayette, LA 70503  
KC5IJD  
EMail: kc5ijd@sprintmail.com

-----  
Message-ID: <00d001be957b\$a8de2780\$7b9afea9@study>  
From: "Frank Townsend" <ftownsen@iamdigex.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Copyright advice needed!  
Date: Mon, 3 May 1999 11:42:13 -0400  
MIME-Version: 1.0



Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Bobbi:

Looks like the copyright office will search fopr you for \$20/hour if you can't go to Washington. Circular 22 at the Copyright Office web page tessl you what to do. I emailed a copy to you.

<http://lcweb.loc.gov/copyright/circls/>

If renewed in 1962 (the end of the first term) the booklet would be protected until 2029.

Regards,

Frank Townsend  
Baltimore, Maryland

-----Original Message-----

From: Roberta J. Barmore <rbarmore@indy.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Date: Monday, May 03, 1999 1:51 PM  
Subject: Copyright advice needed!

>  
>Hi, Gang!  
>  
> I have here a booklet from 1934, which the good folks at Pacific Radio  
>Publishing Company saw fit to copyright. Now the original copyright is  
>long expired...but PRP Co. begat Editors & Engineers, which was consumed  
>in two parts by Cowan and Howard W. Sams, any of whom might've renewed it.  
>It's unlikely--the material was topical and this particular publication  
>went through several editions, each seperately copyrighted.  
> But how can I find out? I've never tried to clear a copyright before;  
>is there a governement web site or some place to look?  
> ...I'd really like to print up a batch of reprints of this book; "5  
>Meter Radiotelephony" is a good one! And it would be ever so much nicer  
>to do so with a clear conscience and no dark looks from the copy-shop  
>folks.  
>  
> 73,  
> --Bobbi  
>  
>KB9GKX "RJ" rbarmore@indy.net Roberta J. (Bobbi) Barmore  
> FISTS #3388 \* G-QRP #10001 \* ARRL \* RSGB \* WIA

> Appreciator Of Vacuum-Tube Ham Gear and Vintage Keys  
>

-----  
Date: Mon, 03 May 1999 13:16:57 -0600 (MDT)  
From: Richard Loken <richardlo@devax.admin.athabascau.ca>  
Subject: Re: Audiophoolery Explained  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: Old Tube Radios <boatanchors@theporch.com>  
Message-id:  
<Pine.PMDF.3.95.990503124244.541065907A-100000@devax.admin.athabascau.ca>  
MIME-version: 1.0  
Content-type: TEXT/PLAIN; charset=US-ASCII

On Mon, 3 May 1999, Arden Allen wrote:

> I don't know of a "tube sound", that's for adherents to Self's Subjectivist  
> Manifesto. Where sonic perfection is desired, solid state is way ahead of  
> the game. Where something else is desired, who knows, maybe someone will  
> market a steam calliope as a return to lost virtues.

AHAH! You start to flirt with the "truth" and profess not to know you are doing it. Just maybe people do not want sonic perfection, just maybe they want something that sounds nice. There is indeed a "tube sound" and it is likely due to two things: a certain collection of harmonics caused by a certain style of distortion and lousy transient response. Well maybe not but it sounds plausible.

Now then, lets take some sooooooib set of modern speakers (or are they transducers now) with polypropylene speaker cones or something like that and feed them with a 200W RMS amplifier with 0.00000% harmonic distortion and instantaneous response to the input signal from 3Hz to 33,000KHz +/- 0.01db and feed in a dog chasing a cat through an alley.

Ya know what? It still sounds like a dog chasing a cat through an alley!

Buddy Holly on CD! It is still a transcription of Buddy and the crickets in a concrete room with a couple RCA ribbon mikes recorded onto an Ampex 350 and dubbed over to a 78 using an old sewing needle and my cd player faultlessly reproduces every distortion in the old sound chain, every missed note, and, even worse, makes it glaringly obvious that Buddy couldn't sing, the crickets only knew three chords, and that the music and lyrics will never be art.

I prefer to listen to Buddy through my antique Dual 1229, distorted by my hoary old Marantz solid state amp, and muffled by my Goodmans 10" triaxial speakers in their full size reflex enclosures. And I kind of like to hear Handel that way too.

---

Richard Loken VE6BSV, Systems Programmer - VMS  
Athabasca University  
Athabasca, Alberta Canada  
\*\* richardlo@admin.athabascau.ca \*\*

-----  
End of BOATANCHORS Digest 2530

\*\*\*\*\*

>From ???@??? Tue May 04 01:55:09 1999  
Message-Id: <199905040351.WAA13628@sco.theporch.com>  
Date: Mon, 3 May 1999 22:50:30 CDT  
From: Old Tube Radios <boatanchors@theporch.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: BOATANCHORS digest 2531

BOATANCHORS Digest 2531

Topics covered in this issue include:

- 1) Re: Remember teletype?  
by Norm Flasch <flasch@cushy.ece.nwu.edu>
- 2) Hagerstown Hamfest, RM-53 unit  
by Doug Ripka <dlr11@scasd.k12.pa.us>
- 3) Re: Audiophoolery Explained  
by "Arden Allen" <gumbear@pacbell.net>
- 4) RE: Remember teletype?  
by "Pete Ferrand" <pete@vermontel.net>
- 5) Re: Audiophoolery Explained  
by Steve Berg <z931086@corn.cso.niu.edu>
- 6) Re: Hagerstown Hamfest, RM-53 unit  
by "Joseph W. Pinner" <kc5ijd@sprintmail.com>
- 7) Re: Audiophoolery Explained  
by "A. B. Bonds" <ab@vuse.vanderbilt.edu>
- 8) Re: Remember teletype?  
by N5CM@aol.com
- 9) WTB: Tube chimney / Hagerstown HF  
by Charles Kadesch <chas@digizen.net>
- 10) Re: Remember teletype?  
by Dick Dillman <ddillman@igc.apc.org>
- 11) A Technical Question for the Microwave Minded  
by David Stinson <arc5@ix.netcom.com>
- 12) TU-50,52-54 Tuning units for BC-610's  
by "John K9UWA" <k9uwa@cris.com>
- 13) Re: Remember teletype?

- by john <johnmb@mindspring.com>
- 14) free BC-375 (chassis, that is)  
by Brian.Harris@sv.sc.philips.com (Brian Harris)
- 15) RE: Remember teletype?  
by "Roberta J. Barmore" <rbarmore@indy.net>
- 16) Re: Copyright advice needed!  
by "Barry L. Ornitz" <ornitz@tricon.net>
- 17) RE: Remember teletype?  
by Bob Roehrig <broehrig@admin.aurora.edu>
- 18) Relays  
by Jerry Proc <jproc@idirect.com>
- 19) Brief Report on the Military Radio Collectors Group (MRCG)  
by Paul Bernhardt <bern@ppdu.nrl.navy.mil>
- 20) Re: Audiophoolery Explained  
by "Barry L. Ornitz" <ornitz@tricon.net>

-----  
From: Norm Flasch <flasch@cushy.ece.nwu.edu>  
Message-Id: <199905031932.0AA13222@cushy.ece.nwu.edu>  
Subject: Re: Remember teletype?  
To: Old Tube Radios <boatanchors@theporch.com>  
Date: Mon, 3 May 1999 14:32:25 -0500 (CDT)  
MIME-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit

I stand corrected.

A side note on Teletype Corporation. They used to be located on Touhy and Carpenter Rd. in Skokie, Illinois. Several years ago they gutted it all and made a shopping mall out of it keeping much of the building infrastructure. The part that was Teletype is still vacant. You can still see some of the original loading docks if you drive around the back. But not for long. Skokie just announced the approval of an \_18\_ seat movie theatre on that location despite a huge thumbs down by village residents.

>  
> Ragnar Otterstad wrote:  
>  
> > Teletype is or was a registered trade mark. The correct word would be  
> > Teleprinter ! hi 73 Rag oz8ro  
>  
> ...or teletypewriter, the preferred one used by my brother when  
> he was working for Teletype Corp.  
>  
> 73, Al N5AIT  
>

--

Norm Flasch        Electronic Specialist        ECE dept  
Northwestern University        Evanston, Illinois  
flasch@ece.nwu.edu                                847-467-4387

-----  
Message-Id: <3.0.1.16.19990503160044.2b671732@email.scasd.k12.pa.us>  
Date: Mon, 03 May 1999 16:00:44 -0400  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Doug Ripka <dlr11@scasd.k12.pa.us>  
Subject: Hagerstown Hamfest, RM-53 unit  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi all,

Went to the Hagerstown Hamfest yesterday with a friend. There were about 20 or so tailgaters.

Some stuff seen:

Halli S-38C, E versions  
Hammarlund HQ-140  
Galaxy amp  
Teletype model 19 setup, with perforator, power supply- perf. had WPM dial!  
E.F. Johnson bug with case-  
Eldico SSB transmitter w/ 1" CRT

plus a few other rigs I can't remember.

Regarding the bug w/ case-- the case was slightly larger than a vibroplex case,  
but the owner said it wasn't specifically made for a bug. Inside there were two  
sets of horizontal indentations, each about 1/4" deep, like you could slide in two  
pieces of thin wood for shelves. The only writing said "Zephyr" on the inside of the door.  
Any ideas as to what was originally made for?

Next question- I picked up a schematic for a PP-112 power supply. The unusual part is that it is printed on Nylon cloth. I am curious why it is printed on cloth- It would make a small boatanchor flag, as it is about 12" high  
by 20" wide. I have heard of maps being printed on silk for downed pilots-- maybe this is the one for the radioman?

Finally, I have a RM-53 remote that I picked up recently at a flea market. Does anyone need one of these? What does it go to? If someone wants it at cost (\$5) plus shipping, drop me an e-mail. It is in pretty good cosmetic shape, batteries didn't eat the inside and has a 1945 contract date.

Thanks,

Doug KA3TTQ  
dlr11@scasd.k12.pa.us

-----  
Message-Id: <199905032119.0AA15848@mail-gw2.pacbell.net>  
From: "Arden Allen" <gumbear@pacbell.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: "Old Tube Radios" <boatanchors@theporch.com>  
Subject: Re: Audiophoolery Explained  
Date: Mon, 3 May 1999 14:13:27 -0700  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Howdy Richard;

> > I don't know of a "tube sound", that's for adherents to Self's  
Subjectivist  
> > Manifesto. Where sonic perfection is desired, solid state is way ahead  
of  
> > the game. Where something else is desired, who knows, maybe someone  
will  
> > market a steam calliope as a return to lost virtues.  
>  
> AHAH! You start to flirt with the "truth" and profess not to know you  
are  
> doing it. Just maybe people do not want sonic perfection, just maybe  
they  
> want something that sounds nice. There is indeed a "tube sound" and it  
is  
> likely due to two things: a certain collection of harmonics caused by a  
certain  
> style of distortion and lousy transient response. Well maybe not but it  
> sounds plausible.

"Nice"? Just a week ago I had the quite interesting task of measuring out the THD of a friend's home brew class A (with adjustable bias) single ended amplifier that could use a variety of triodes. Its best performance was about 1.2 watts and .5% distortion with WE 300B's. Its next best was with

RCA 203's. We ran it with several other toobs, one not being made since the late 20's. It was fun and the tubes were charming with their various glows and curious distorted waveforms as viewed on the 'scope.

I have, in times past, measured out examples of the higher capability amps such as the Marantz 8B and Mac 250. The best amps are like high power video amps, very accurate pulse and complex waveform response and impossible to destabilize, all running those terribly non-linear beam and power pentodes.

The "toob sound" amps are really a composite of a design topology involving simplistic circuits and careful selection of certain tubes. The epic legends of musician's preference for tube amps is more due to the modes of \*severe distortion\* in certain tube designs that are not convincingly replicated in kludged solid state designs. There is some objective reasoning behind the preference for certain distortion products such as second harmonics that add an attractive characteristic to certain kinds of music.

If someone was nuts enough to try it (there are plenty available), a preferred toob design's performance could be mapped to a DSP and faithfully (by any objective criteria you want to try) reproduced but it wouldn't sell even with its life-time reliability and low cost. "Toob sound" occurs in the imagination heavily biased by cult propaganda and self conceived ideologies in want of an outlet for social recognition. Hucksters are adept at converting fields that lay a foul into cash crop farms. My last word on the subject (sigh).

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

-----  
Message-Id: <199905032137.RAA11224@raptor.vermontel.net>  
From: "Pete Ferrand" <pete@vermontel.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: Remember teletype?  
Date: Mon, 3 May 1999 17:38:56 -0400

Bobbi wrote:

> ...The best fun of the whole process was to be  
> cold-reading (i.e.,  
> without checking it over first) a wire  
> story--sports news was the  
> worst--and find the keypunch op had neglected to  
> shift from "figures" back

> to "letters." There was no good way out of it,  
> it's a little difficult to  
> fake the outcome of a sporting match....  
> Most stations banned cold-reading and a  
> good-many banned "rip & read,"

One of the concepts here that's worth further exploration is that as time goes by the world is de-emphasizing as much skill as possible - obsoleting mechanical aspects of radios, copying code by brain, marine radio operating, and so on, and as part of this devolution it appears that almost no one who got into broadcasting about three days after I did (1969) keeps their eyes ahead of where their mouth is when reading copy.

I never was at a station banning cold-reading or rip-and-read, but they did ban mistakes, so professionals were expected to figure out how to not make them.

While sometimes there would be a screwup on the ltrs/figs shift, it was more common for the wire service tapepuncher to make a mistake and rather than backing the tape up and punching all the holes, they would just type three X's (XXX) and repeat the word correctly and go on.

When there was a larger mistake that covered more than that, say the op had started typing the same story twice, they would write "BUST" or "BUST IT" and skip a couple lines, then continue with something else.

Given that this is the case, it is obvious that one has to keep the eyes about a line ahead of the mouth to avoid these pitfalls, unless one writes one's own copy or memorizes it.

One friend of mine actually recalls a story of a young part-timer reading an incomprehensible story, followed by "BUST IT BUST IT BUST IT" and then the next story, undoubtedly baffling those few listening.

Since none of this happens today, guys on the air haven't developed this simple skill, and so are thrown by, and stumble on, the inevitable foreign name or awkward construction.

And like with so many things, apparantly fewer people seem to care.



On other points, it was common for even average sized stations in cities to have three to six machines clattering away, so conversation around them was automatically discouraged.

There is also a story as to why Extel is a rearrangement of the word Telex or the other way round but I don't know what it is, anyone help?

-Pete  
WB2QLL  
Plainfield, NH  
pete@vermontel.net

-----  
Message-ID: <372E1930.A1B091EE@corn.cso.niu.edu>  
Date: Mon, 03 May 1999 16:46:25 -0500  
From: Steve Berg <z931086@corn.cso.niu.edu>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
CC: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Audiophoolery Explained  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I used to use my HRO-50T1 as a mono amplifier during my first years at the university. Its 6V6's did pretty well at filling my room with decent sounding tunes. I have no idea what its distortion specs were like, but it could have used a bass boost along with the treble cut tone control. Some years before that, I was involved with the student radio station at Nebraska Wesleyan University. Ben Roe, K0YDS designed the transmitter. It was all tube, of course. Our control board was sand state, but all of the audio was pure Ampex. We purloined the circuits from some Ampex manuals. I don't know where the modulation transformer came from, but that rig had some great audio! Since we were carrier current, we did not bother with limiting the bandwidth, and those tube amplifiers did a great job on most any type of music, including our popular opera show. I doubt that it is still in service, but it was a lot of fun at the time.

Steve WA9JML

-----  
Message-Id: <199905032200.PAA04628@raven.prod.itd.earthlink.net>

Subject: Re: Hagerstown Hamfest, RM-53 unit  
Date: Mon, 3 May 1999 17:00:53 -0500  
From: "Joseph W. Pinner" <kc5ijd@sprintmail.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

>Next question- I picked up a schematic for a PP-112 power supply.  
>The unusual part is that it is printed on Nylon cloth. I am curious why  
>it is printed on cloth- It would make a small boatanchor flag, as it is  
>about 12" high  
>by 20" wide. I have heard of maps being printed on silk for downed pilots--  
> maybe this is the one for the radioman?

The GRC-3 through 8 series often had schematics for each set (RT, 66,  
RT-70, AM-65, etc) done this way and placed in a small container inside  
the set.

73

Joseph W Pinner +  
Lafayette, LA  
KC5IJD / NNNOPHR  
EMail: kc5ijd@sprintmail.com

-----  
Message-Id: <3.0.1.32.19990503171500.00ab79a0@vuse.vanderbilt.edu>  
Date: Mon, 03 May 1999 17:15:00 -0500  
To: Old Tube Radios <boatanchors@theporch.com>  
From: "A. B. Bonds" <ab@vuse.vanderbilt.edu>  
Subject: Re: Audiophoolery Explained  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 04:46 PM 5/3/99 -0500, you wrote:

>Some years before that, I was involved with the student radio  
>station at Nebraska Wesleyan University. Ben Roe, K0YDS designed the  
>transmitter. It was all tube, of course. Our control board was sand  
>state, but all of the audio was pure Ampex. We purloined the circuits  
>from some Ampex manuals. I don't know where the modulation transformer  
>came from, but that rig had some great audio! Since we were carrier  
>current, we did not bother with limiting the bandwidth, and those tube  
>amplifiers did a great job on most any type of music, including our  
>popular opera show.

At the Voice of the Big Red, (WVBR), we had both AM carrier current to the  
dorms and FM to the surrounding area. Two wholly different studios, two  
different programs. Guy named Mike Ernstoff designed our Mark 93 CC

transmitters, which were huge. Each had two chassis (power supply, transmitter), KT88s modulating a pair of 807's. Lessee, what was the limit, 100 mW? Sure. We worked around the radiated power problem by standing in certain spots with the field strength meter and if you turned it just SO, you might be able to get the needle below the maximum (hell, this was Ithaca, no living beings in 500 miles....). These monsters were loaded with some huge LC networks (640 AM) into the power lines. One had coax feeding loops in six different dorms. You could pick that one up bigtime in the parking lot of the McDonald's on Dryden Road, about 12 miles away (well, the northeast corner of the lot....) There were altogether 8 transmitters. We equalized all of the audio lines ourselves and could easily get 12 kHz out of them.

Sigh. All gone now. I saw the remnants of the Donlon transmitter last I was in Ithaca, nothing but a ripped up chassis with some dymo tape on it. Whither AM.....

A. B. Bonds

-----  
From: N5CM@aol.com  
Message-ID: <c5d0925a.245f7c08@aol.com>  
Date: Mon, 3 May 1999 18:24:08 EDT  
Subject: Re: Remember teletype?  
To: Old Tube Radios <boatanchors@theporch.com>  
CC: boatanchors@theporch.com  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Hi Gang,

Does anyone remember shortly after WW2 coying press  
60 WPM wide shift and being made aware that we are not  
getting all the news in the newspapers and broadcast radio????

I was amazed at the news that was not reported but came  
in on the HF press schedules. And we thought we had free  
speech in this country. Censorship, no less.

I first began to copy WCC on CW sending press on schedules  
at 38 WPM and later when I got my first teletype machine I  
copied the RTTY skeds

By the way, I have a "weather basket" for a model 15 or 19. The  
"basket" is the little cluster of type that runs on a track from  
left to right. The C.A.A. (Civil Aeronautics Administration, now  
the Federal Aviation Agency) transmitted weather data on

landline teletype circuits and WBR-70 sent it on several frequencies on HF. The basket has weather symbols and wind arrows in place of some of the upper case characters.

Just reminiscing, forgive.....

Ken....N5CM....

-----  
Message-ID: <372DBF66.6335@digizen.net>  
Date: Mon, 03 May 1999 08:23:18 -0700  
From: Charles Kadesch <chas@digizen.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: WTB: Tube chimney / Hagerstown HF  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

A nice day to escape the city to the Allegheny foothills- fresh air and sunshine were abundant. A few BA's and some good homebrew parts were available. I picked up some NOS 3-400Zs and their Eimac SK400 cooling sockets but the chimneys were missing. As a long shot- I wonder if any one has one? If not, I guess I will be shopping for some Pyrex containers and fashioning my own :>)

-73 from Chas W3KC-

-----  
Date: Mon, 3 May 1999 15:51:43 -0700 (PDT)  
Message-Id: <2.2.16.19990503153941.445fc456@pop.igc.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Dick Dillman <ddillman@igc.apc.org>  
Subject: Re: Remember teletype?  
Cc: boatanchors@theporch.com

At 06:24 PM 5/3/99 EDT, N5CM@aol.com wrote:

>Does anyone remember shortly after WW2 coying press  
>60 WPM wide shift and being made aware that we are not  
>getting all the news in the newspapers and broadcast radio????  
>  
>I was amazed at the news that was not reported but came  
>in on the HF press schedules. And we thought we had free  
>speech in this country. Censorship, no less.

There was a group in Berkeley, CA that was operating through the 70s copying HF RTTY press for use by various lefty broadcast and print outlets. I

visited them and enjoyed seeing the teleprinters in operation. At that time their big problem was still receiver drift. As I remember it they liked Drake receivers the best and said they were stable and gave a good value for the money.

Regards,

Dick

Dick Dillman  
<ddillman@igc.apc.org>  
WPE2VT W6AWO  
Collector Of Heavy Metal:  
Harleys, Willys and Radios Over 100lbs.

-----  
Message-ID: <372E301D.264CEAA5@ix.netcom.com>  
Date: Mon, 03 May 1999 18:24:13 -0500  
From: David Stinson <arc5@ix.netcom.com>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: A Technical Question for the Microwave Minded  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

This is going to seem like it's not BA related,  
and because of that I ask that anyone responding do so  
off of the list, directly to me in email.  
I ask the you please thrust that it is BA related;  
I just can't write about how it is related at this early time.  
I'm exploring an idea.  
I'm bringing the question here because I know  
of no other group of people who's technical expertise  
I value more. If you know anything about microwave,  
please read on. If not, thanks for the time.

I need to deliver between 1 and 5 watts of power  
to a small target mass located within an inch or two  
of the radiating element, and I need the source  
to be continuously variable in frequency from  
1.6 to 14.0 Ghz.

I know-- That's a pretty tall order.  
I need some ideas on how a shade-tree tech might  
accomplish this task.

Thanks again,

Dave Stinson AB5S  
arc5@ix.netcom.com

-----  
Message-Id: <199905032337.TAA09515@newman.concentric.net>  
From: "John K9UWA" <k9uwa@cris.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Date: Mon, 3 May 1999 18:37:58 -0500  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Subject: TU-50,52-54 Tuning units for BC-610's

OK I have one each of these tuning units for BC-610's.....anybody  
interested before I put them in the pile to go to Dayton??

TU-50,52-54 Tuning units for BC-610's

Thanks  
John K9UWA

John Goller, K9UWA & Jean Goller, N9PXF  
Antique Radio Restorations  
k9uwa@cris.com  
k9uwa@concentric.net

<http://www.concentric.com/~k9uwa/>

-----  
Message-Id: <3.0.3.32.19990503194349.00c37898@mindspring.com>  
Date: Mon, 03 May 1999 19:43:49 -0400  
To: Old Tube Radios <boatanchors@theporch.com>  
From: john <johnmb@mindspring.com>  
Subject: Re: Remember teletype?  
Cc: boatanchors@theporch.com  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 03:51 PM 5/3/99 -0700, Dick Dillman wrote:

>At 06:24 PM 5/3/99 EDT, N5CM@aol.com wrote:

As I remember it they liked

>Drake receivers the best and said they were stable and gave a good value for  
>the money.

Well, SOME things haven't changed...!  
:-)

/John

-----  
Mime-Version: 1.0  
Date: Mon, 3 May 1999 18:50:58 -0700  
Message-ID: <0031FA60.1914@svlima.sv.sc.philips.com>  
From: Brian.Harris@sv.sc.philips.com (Brian Harris)  
Subject: free BC-375 (chassis, that is)  
To: Old Tube Radios <boatanchors@theporch.com>  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit  
Content-Description: cc:Mail note part

Title says it. I have two totally stripped BC-375 chassis just in case yours got run over by truck or something. Sorry, no side or top covers.

Brian

-----  
Date: Mon, 3 May 1999 21:56:32 -0500 (EST)  
From: "Roberta J. Barmore" <rbarmore@indy.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
cc: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: Remember teletype?  
Message-ID: <Pine.SUN.3.96.990503212348.26599A-1000000@indy1>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi!

It has been awhile--very nearly twenty years, which stuns me to think--since I read any wirecopy on the air; but I often did it cold. The usual trick was to scan the page, looking for "BUST IT BUST IT" (I don't recall ever seeing Xs, but maybe UPI didn't do that; only worked at places with an AP wire for very short times), and then read a line or two ahead. The "quick glance" bought a little extra time between stories, which was a good thing as I always tended to read too quickly.

As for not talking around the wire machines, hmpf! We'd yell over the one in the hall at the first station I worked for--blamed thing was right next to the coffee machine. Too, I was even more high-strung and obnoxious as a teen-ager and just past than I am now, and discovering a huge paper jam a half-minute before the news, with an hour of copy chewed up beyond redemption, I was known to say things of the sort which a good girl should not. Loudly and at great length. (There is, however, no truth to the rumour that bikers and truck drivers used to stand in awe; I was never that good and finally swore off swearin'--turns out it doesn't make things any better to cuss about 'em).

Most of the stations where I worked on the air were small-to-middlin'; one person read the news, ran the transmitter(s), spun records, etc. all alone and this left little time for really careful prep. Too, at that age I was still treating radio work as something other than a real job--a salient feature of most radio broadcast employment in the US is that it is all, one way or another, of a temporary nature, mostly at the whim of high-livin' sales department moguls. When you are young, stupid, and every tw-horse burg has a one-horse radio station, you don't take the work as seriously as it deserves! (Forsooth, I was soaking up an education on practical "engineering" while stumbling through books full of theory; despite a lot of discouragement, I was determined my future lay behind a soldering iron rather than a mic.)

73,  
--Bobbi

KB9GKX "RJ" rbarmore@indy.net Roberta J. (Bobbi) Barmore  
FISTS #3388 \* G-QRP #10001 \* ARRL \* RSGB \* WIA  
Appreciator Of Vacuum-Tube Ham Gear and Vintage Keys

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Message-Id: <199905040201.WAA07140@flash.naxs.net>  
From: "Barry L. Ornitz" <ornitz@tricon.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Copyright advice needed!  
Date: Mon, 3 May 1999 22:59:49 -0400

Roberta Barmore asked about copyrights, wanting to print some copies of "5 Meter Radiotelephony".

The current copyright period is 75 years from the last copyright publication. So I think you cannot republish without permission in this case. You can check with the Copyright Office (part of the Library of Congress) to research any records. They have an excellent web presence with many helpful articles and guides available to download.

Getting permission to publish is sometimes simple, and nearly impossible at other times - especially if the author is deceased.

73, Barry L. Ornitz WA4VZQ ornitz@tricon.net

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Date: Mon, 3 May 1999 22:06:17 -0500 (CDT)  
From: Bob Roehrig <broehrig@admin.aurora.edu>  
To: Old Tube Radios <boatanchors@theporch.com>  
cc: Old Tube Radios <boatanchors@theporch.com>



Subject: RE: Remember teletype?  
Message-ID: <Pine.ULT.3.96.990503220352.19868D-1000000@admin.aurora.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 3 May 1999, Roberta J. Barmore wrote:

> Most of the stations where I worked on the air were small-to-middlin';  
> one person read the news, ran the transmitter(s), spun records, etc. all  
> alone and this left little time for really careful prep.  
> soldering iron rather than a mic.)

Same here. I spent several years reading both AP and UPI and I don't recall ever seeing "BUST IT" or X's in the copy. We saw very few goofs in the copy.

"Nostalgia is a thing of the past"  
E-mail: broehrig@admin.aurora.edu or k9eui@arrl.net 73 de Bob, K9EUI  
CIS: Data / Telecom Aurora University, Aurora, IL  
630-844-4898 Fax 630-844-4222

-----  
Message-ID: <372E68B2.30FC1910@idirect.com>  
Date: Mon, 03 May 1999 23:25:39 -0400  
From: Jerry Proc <jproc@idirect.com>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Relays  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi Folks,

After hunting through my junkbox trying to build an electrically equivalent replacement relay, I noticed that quite a few relay coils are stamped with the value of resistance. To me, the voltage, current rating and power type would be a more useful parameter. Why the value in ohms?

--

Regards,  
Jerry Proc VE3FAB jproc@idirect.com  
Web: [www3.sympatico.ca/hrc/haida](http://www3.sympatico.ca/hrc/haida)  
HMCS HAIDA Historic Naval Ship, Toronto Ontario

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Date: Mon, 3 May 1999 23:30:50 -0400 (EDT)  
From: Paul Bernhardt <bern@ppdu.nrl.navy.mil>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Brief Report on the Military Radio Collectors Group (MRCG)  
Message-Id: <Pine.A32.4.03.9905032307230.22819-100000@ppdu.nrl.navy.mil>  
Mime-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

I had a meeting at Vandenberg on Friday so I was able to stay over Saturday to attend the 4th Annual MRCG Meeting in San Luis Obispo California. Several east coasters besides myself attended including Ted Young and Dennis DuVall who recently moved to Southern California. Field activities occurred on Friday with an exercise to see which field set was most sensitive. David Ross used a PRC-6 to good use in this activity. I brought an ARR41 as part of my airplane baggage. It was set up in the military radio display room that contained everything from a working PRC-1 to ARC-5's and TCs-12's.

At 6 AM on Saturday the swap meet began. I focussed on getting two complete PRC-6 Walkie-Talkies, manuals, batteries, and test units from several sellers. Since I was flying back, I had to keep the load light. For sale were 4 BC-610's (for \$500 to \$600), two sets of RBB/RBC (\$100-\$200 including power supplies and cables) receivers, a pristine BC-191 (for \$650), lots a manuals. A 9:30 Hank Brown called the group together and we had talks by Bart Lee on Radio Intercept and Spies, Dennis DuVall on East Coast Military Collectors, and Bjorn Forsberg on Pre WW-2 Trench Radios.

We missed seeing Ed Zeranski who had to work and Henry Engstrom who has health problems. I was happy to see Hank, Mort, Mike, Paul, Bob, Tom, and all the others in this group of collectors.

Several detailed reports on this event are planned for publication in Electric Radio and Antique Radio Classified.

Cheers, Paul Bernhardt

Work: P.A. Bernhardt	Home: Paul Bernhardt, KF4FOR
Code 6794	5704 Ridge View Dr.
Naval Research Laboratory	Alexandria, VA 22310
Washington, DC 20375	
Tel: 202-767-0196	703-960-9656
FAX: 202-767-0631	

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Message-Id: <199905040251.WAA13083@flash.naxs.net>  
From: "Barry L. Ornitz" <ornitz@tricon.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Audiophoolery Explained  
Date: Mon, 3 May 1999 23:50:06 -0400

Arden wrote:

>You bet there were. That's when TIM (transient intermodulation  
>distortion) was invented. I had a hi-fi repair shop back then.  
>I'll never forget the Sherwood amp I took in, it sounded  
>atrocious. The all DC amplifier circuits were the worst. Engineers  
>didn't understand propagation delays in transistors.

Actually the propagation delays in the transistors were not the major cause of this. It was how the feedback was applied. All of the mathematics for this were worked out by H. S. Black in the late 1920's when he worked for Bell Telephone Laboratories. Bode extended this later (thanks Dave Stinson, for that book copy). The problem arises when a feedback path is established around several stages, each having a particular frequency/phase response. In analogous circuits built with tubes using the same feedback methods, you would get the same type of distortion.

Basically what happens is that any signal applied to the first stage has to pass through several succeeding stages before the resulting output signal is sent back to the first stage as feedback. There is a natural phase shift (related to, but not exactly the same as time delay) through each stage. By the time the signal reaches the output stage, the phase shift might be considerable. When this signal is fed back to cancel distortion, it is no longer in the necessary phase relationship to do the best job. The idea of calling the distortion, "transient distortion", is because for a fast transient, it must pass through several stages before the feedback can even be applied to try to cancel it. By this time, the transient may have disappeared. Propagation delays in transistors can make this worse, but their effect is small at audio frequencies - just like the transit time of electron tubes.

The Hi-Fi Audiophool industry seemed to think they had invented something new. They just did not understand feedback theory. Vacuum tube amplifiers rarely had this problem since either no feedback was used, or it was applied around only single stages (like degenerative feedback from a cathode resistor). It is extremely rare to see a feedback design published for a vacuum tube amplifier where the loop extends beyond two stages. Because the transistors were so nonlinear, heavy feedback had to have been used. Placing it around several stages cut costs, and the steady state distortion was superb. But they forgot about the fact that music is not a collection of steady-state sinewaves.

The same audio industry has also tried to blame electrolytic capacitors for distortion (ala Walt Jung). The funny thing is, no self-respecting vacuum tube engineer would have ever used electrolytic capacitors in a signal path unless they absolutely HAD to get that much capacitance, and then only with

the capacitor heavily biased. Electrolytic capacitors are closer to chemical rectifiers and storage batteries than they are to pure capacitance. If you try to put an AC signal through one, you had better be sure that the capacitor has quite a bit more DC on it so the negative voltage peaks of the audio do not back bias it. Using non-polar electrolytics in cross-over networks is asking for distortion. Hey, they are CHEAP.

As Arden and Richard Loken discussed, modern audio amplifiers tend to be "perfect" in the reproduction and amplification of the input signal. But like many things, our ears tend to play tricks on us. Many prefer "the sound of distortion". The study of this subjective process is known as psychoacoustics. And again while the typical audiophool denies this can happen to HIS "golden ears", even Terman discusses some of the effects. I am sure Roberta Barmore and others who have worked with broadcast stations can also attest to the distortion deliberately added by compressors, limiters, etc.

73, Barry L. Ornitz      WA4VZQ      ornitz@tricon.net

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End of BOATANCHORS Digest 2531  
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